

WHAT IS CLAIMED IS:

1 1. A compound having the formula:



3 wherein

4 Ab is an antibody;

5 G is an intact glycosyl linking group covalently joining Ab to L;

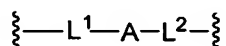
6 L is a bond or a spacer moiety covalently joining G to T; and

7 T is a toxin.

1 2. The compound according to claim 1, wherein said linker moiety is a
2 member selected from substituted or unsubstituted alkyl, substituted or unsubstituted
3 heteroalkyl and substituted or unsubstituted aryl moieties.

1 3. The compound according to claim 2, wherein said linker moiety
2 comprises a poly(ethylene glycol) moiety.

1 4. The compound according to claim 1, wherein L has the formula:



3 wherein

4 L¹ is a bond or a linker moiety covalently joining S to A;

5 A is an amplifier moiety; and

6 L² is a bond or a spacer moiety covalently adjoining A to T.

1 5. The compound according to claim 4, wherein said amplifier moiety is a
2 polyamine moiety.

1 6. The compound according to claim 5, wherein said polyamine moiety is
2 a dendrimer.

1 7. The compound according to claim 4, having the formula:



3 wherein

4 PEG is a straight- or branched-chain poly(ethylene glycol);

5 m is an integer from 1 to 6; and

6 n is an integer from 1 to 1,000.

8. The compound according to claim 4, having the formula:

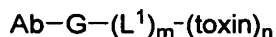


wherein

m is an integer from 1 to 6; and

n is an integer from 1 to 1,000.

9. The compound according to claim 4, having the formula:

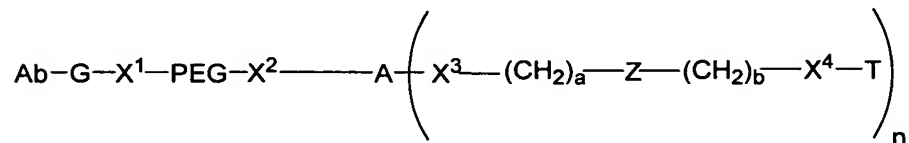


wherein

m is an integer from 1 to 6; and

n is an integer from 1 to 1,000.

10. The compound according to claim 1, having the formula:



wherein

X^1 , X^2 and X^4 are linking groups and are members selected from the group consisting of O, S, NH, $(\text{CH}_2)_q\text{-NH}$, $\text{NH-(CH}_2\text{)}_q$, NH-C(O)-O , O-C(O)-NH , $(\text{CH}_2)_q\text{-NH-C(O)-O}$, $\text{O-C(O)-NH-(CH}_2\text{)}_q$, C(O)-O , O-C(O) , $(\text{CH}_2)_q\text{-NH-C(O)}$, $\text{C(O)-NH-(CH}_2\text{)}_q$, NH-C(S) , and C(S)-NH

and wherein

A is an amplifier moiety;

Z is a bond cleaved by a metabolic/physiological process;

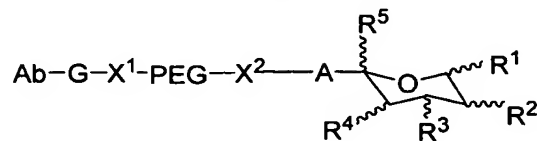
n is an integer from 1 to 1,000;

a is an integer from 1 to 10;

b is an integer from 1 to 10; and

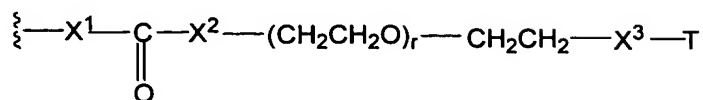
q is an integer from 0 to 20.

11. The compound according to claim 1, having the formula:



wherein

at least one of R^1 , R^2 , R^3 , R^4 , R^5 , is :



wherein

r is an integer from 1 to 2,500;

Z^1 is selected from the group consisting of O, S, and NH;

Z^2 is selected from the group consisting of NH, and $NH-(CH_2)_q$;

and

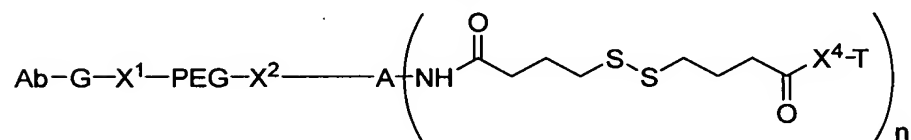
X^1 , X^2 and X^3 are linking groups and are members selected from the group consisting of O, S, NH, $(CH_2)_q-NH$, $NH-(CH_2)_q$, $NH-C(O)-O$, $O-C(O)-NH$, $(CH_2)_q-NH-C(O)-O$, $O-C(O)-NH-(CH_2)_q$, $C(O)-O$, $O-C(O)$, $(CH_2)_q-NH-C(O)$, $C(O)-NH-(CH_2)_q$, $NH-C(S)$, and $C(S)-NH$

wherein

n is an integer from 1 to 1,000; and

q is an integer from 0 to 20.

12. The compound according to claim 1, having the formula:



wherein

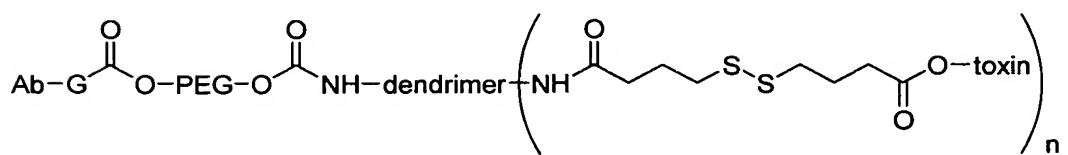
X^1 , X^2 and X^4 are linking groups and are members selected from the group consisting of O, S, NH, $(CH_2)_q-NH$, $NH-(CH_2)_q$, $NH-C(O)-O$, $O-C(O)-NH$, $(CH_2)_q-NH-C(O)-O$, $O-C(O)-NH-(CH_2)_q$, $C(O)-O$, $O-C(O)$, $(CH_2)_q-NH-C(O)$, $C(O)-NH-(CH_2)_q$, $NH-C(S)$, and $C(S)-NH$

wherein

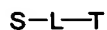
n is an integer from 1 to 1,000; and

q is an integer from 0 to 20.

13. The compound according to claim 12, having the formula:



14. A compound having the formula:



wherein

S is a nucleotide sugar

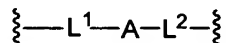
L is a bond or a spacer moiety covalently joining S to T; and

T is a toxin moiety.

15. The compound according to claim 14, wherein said spacer moiety is a member selected from substituted or unsubstituted alkyl, substituted or unsubstituted heteroalkyl and substituted or unsubstituted aryl moieties.

16. The compound according to claim 15, wherein said spacer moiety comprises a poly(ethylene glycol) moiety.

17. The compound according to claim 14, wherein L has the formula:



wherein

L^1 is a bond or a spacer moiety covalently joining S to A;

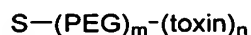
A is an amplifier moiety; and

L^2 is a bond or a spacer moiety covalently joining A to T.

18. The compound according to claim 17, wherein said amplifier moiety is a polyamine moiety.

19. The compound according to claim 18, wherein said polyamine moiety is a dendrimer.

20. The compound according to claim 17, having the formula:



wherein

PEG is a straight- or branched-chain poly(ethylene glycol);

m is an integer from 1 to 6; and

n is an integer from 1 to 1,000.

21. The compound according to claim 17, having the formula:

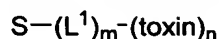


wherein

m is an integer from 1 to 6; and

n is an integer from 1 to 1,000.

22. The compound according to claim 17, having the formula:

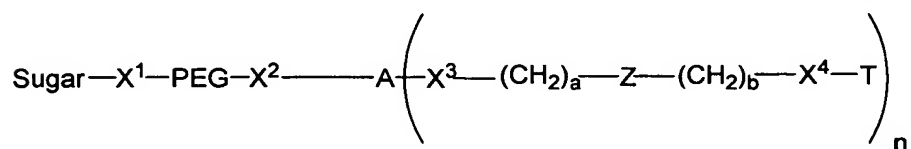


wherein

m is an integer from 1 to 6; and

n is an integer from 1 to 1,000.

23. The compound according to claim 22, having the formula:



wherein

X^1 , X^2 and X^3 are linking groups and are members selected from the group consisting of O, S, $NH(CH_2)_q-NH$, $NH-(CH_2)_q$, $NH-C(O)-O$, $O-C(O)-NH$, $(CH_2)_q-NH-C(O)-O$, $O-C(O)-NH-(CH_2)_q$, $C(O)-O$, $O-C(O)$, $(CH_2)_q-NH-C(O)$, $C(O)-NH-(CH_2)_q$, $NH-C(S)$, and $C(S)-NH$

and wherein

A is an amplifier moiety;

Z is a bond cleaved by a metabolic/physiological process;

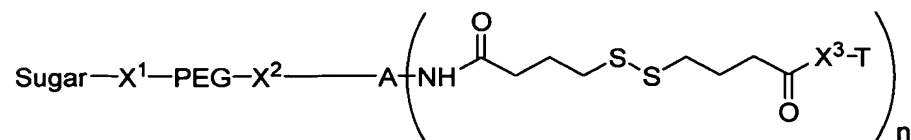
n is an integer from 1 to 1,000;

a is an integer from 1 to 10;

b is an integer from 1 to 10; and

q is an integer from 0 to 20.

24. The compound according to claim 14, having the formula:



wherein

X^1 , X^2 and X^3 are linking groups and are members selected from the group consisting of O, S, $NH(CH_2)_q-NH$, $NH-(CH_2)_q$, $NH-C(O)-O$,

6 O-C(O)-NH, (CH₂)_q-NH-C(O)-O, O-C(O)-NH-(CH₂)_q, C(O)-O,
7 O-C(O), (CH₂)_q-NH-C(O), C(O)-NH-(CH₂)_q, NH-C(S), and C(S)-NH
8 wherein
9 q is an integer from 0 to 20.

1 25. The compound according to claim 24, having the formula:

